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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,696	07/08/2005	Frank-Uwe Andersen	449122081200	4053

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EXAMINER

TRINH, SONNY

ART UNIT	PAPER NUMBER
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2618

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/08/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/541,696

Applicant(s)

ANDERSEN ET AL.

Examiner

Sonny TRINH

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-3 is/are allowed.
- 6) ☒ Claim(s) 4, 5 and 7 is/are rejected.
- 7) ☒ Claim(s) 6 and 8 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07/08/05 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. **Claims 4, 7** are rejected under 35 U.S.C. 103(a) as being unpatentable over Tourunen et al. (hereinafter "Tourunen"; U.S. Patent Number 7,167,475) in view of Hanna et al. (hereinafter "Hana"; U.S. Patent Number 6,335,939).

Regarding **claim 4**, with reference to figures 1-2, Tourunen discloses a mobile radio communication network having at least one control network node (SGSN), at which mobile subscribers in the mobile radio communication network are managed on the basis of their current location and connections from/to a communication terminal associated with a mobile subscriber managed at the control network node (SGSN) are controlled within the mobile radio communication network (column 3 line 63 to column 5 line 33). However, Tourunen does not explicitly disclose that the control network node (SGSN) contains a filter function which is used to filter incoming data packets on the basis of a destination address which is respectively indicated in the data packets.

In an analogous art, Hanna teaches the apparatus and method for selectively supplying data packets between media domains in a network repeater (abstract). With reference to figure 1, Hanna further discloses a filter function which is used to filter

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incoming data packets on the basis of a destination address which is respectively indicated in the data packets (claim 1).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to incorporate the filter function, as taught by Hanna, into the system of Tourunen in order to correctly transmit the data packet to its destination, by doing so, the data packets contain mismatched address can be discarded (please see abstract).

Regarding **claim 7**, the combination of Tourunen and Hanna discloses the invention but does not explicitly disclose that the control network node (SGSN) contains a routing function which can be used to route selected data packets with a destination address to the destination address by bypassing other network nodes. However, it is well known that each packet is individually routed or switched to the destination address, and individual packets for a single body of data may traverse the packet-switching network by different routes. Therefore, it would have been obvious and well within the level of a person of ordinary skill in the art to implement the system to route the individual packets to their destination in a different order from which they were shipped, to be reassembled at the destination in the proper sequence based on the packet identifiers (bypassing other nodes if necessary).

2. **Claim 5** is rejected under 35 U.S.C. 103(a) as being unpatentable over Tourunen as modified by Hanna and in further view of McGowan et al. (hereinafter "McGowan"; U.S. Patent Number 6,628,954).

Regarding **claim 5**, the combination of Tourunen and Hanna discloses the invention but does not disclose that the control network node contains a table which records all subscribers managed by the control network node with the addresses appropriately associated with the subscribers.

In an analogous art, McGowan teaches the system, method for controlling access to data services by a subscriber unit in a wireless network (abstract). McGowan further discloses a context table that records all subscribers managed by the control network node with the addresses appropriately associated with the subscribers (figure 3, column 5 line 21 to column 6 line 21).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to incorporate the table, as taught by McGowan to the system of Tourunen and Hanna in order for the system to authenticate users.

Allowable Subject Matter

3. **Claims 6 and 8** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding **claim 6**, the applied references fail to disclose or render obvious the claimed limitations, specifically wherein the filter function is able to perform a comparison between a destination address indicated in a data packet and the table's recorded addresses appropriately associated with the subscribers.

Regarding **claim 8**, the applied references fail to disclose or render obvious the claimed limitations, specifically wherein the control network node (SGSN) contains the filter function and the routing function coupled to one another such that the data packets filtered out by the filter function on the basis of a destination address respectively indicated in the data packets are forwarded to the respective destination address by the routing function by bypassing other network nodes.

4. **Claims 1-3** are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the applied references fail to disclose or render obvious the claimed limitations of a method for controlling data interchange between mobile subscribers (A, B) in a packet-oriented mobile communication network, where each subscriber (A, B) is managed at a particular control network node (SGSN) in the mobile communication network on the basis of his respective current location in the mobile communication network, connections from/to a mobile communication terminal associated with the mobile subscriber (A, B) are controlled (SGSN) within the mobile communication network by the appropriate control network node, in which the control network node (SGSN) stores an address register containing all of the addresses associated with the mobile subscribers (A, B) managed by the control network node (SGSN), the control network node (SGSN) takes incoming data packets and reads a destination address associated with the data packets, and uses a search function to compare said destination address with the address register, if the destination address is

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present in the address register then the data packets are handled and forwarded within the mobile communication network exclusively by the control network node (SGSN), if the destination address is absent from the address register then the data packets are routed from the control network node (SGSN) to a further network node (GGSN) in the mobile communication network for the purpose of further handling.

CONCLUSION

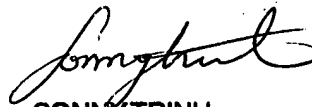
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sonny TRINH whose telephone number is 571-272-7927. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward URBAN can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

1/30/07



SONNY TRINH
PRIMARY EXAMINER